# **Guide: How to Set Up Arduino IDE with ESP Libraries**

Follow this step-by-step guide to configure the Arduino IDE to work with ESP32 and ESP8266 boards.

## Step 1: Download and Install Arduino IDE 2.3.1

- **Download the Arduino IDE (version 2.3.1) for Windows (64-bit)** by clicking the link below:
  - o <u>Download Arduino IDE 2.3.1</u>
- Install the Arduino IDE by running the .msi file and following the installation instructions.

## Step 2: Add ESP Board Manager URLs

- 1. Open Arduino IDE.
- 2. Navigate to **File -> Preferences**. A window will pop up.
- 3. In the **Preferences** window, scroll down to find the box labeled "Additional Boards Manager URLs".
- 4. Click the blue icon to the right of this box to open the URLs input field.
- 5. Copy and paste the following URLs into the input field:

```
https://dl.espressif.com/dl/package_esp32_index.json
https://raw.githubusercontent.com/espressif/arduino-esp32/gh-
pages/package_esp32_index.json
https://arduino.esp8266.com/stable/package_esp8266com_index.json
```

6. After adding the URLs, click **OK** to save and close the Preferences window.

## **Step 3: Install ESP32 and ESP8266 Board Packages**

- 1. Go to **Tools -> Board -> Board Manager** in the Arduino IDE.
- 2. In the search bar at the top of the **Boards Manager**, type "esp".
- 3. Find and install the following board packages:
  - o **ESP32 by Espressif Systems** (version 2.0.5).
  - o ESP8266 by ESP8266 Community (version 2.7.4).

## In case of missing drivers:

ESP8266: https://www.silabs.com/documents/public/software/CP210x Windows Drivers.zip

**ESP32**: https://learn.adafruit.com/how-to-install-drivers-for-wch-usb-to-serial-chips-ch9102f-ch9102/windows-driver-installation